REMARKS

Pursuant to 37 C.F.R. § 1.114, reconsideration of the present application in view of the foregoing amendments and the following remarks is respectfully requested.

Claims 2-3, 8-10, 16-24, 26, 27, and 36 are presented for consideration. Claims 1, 4-7, 11-15, 25 and 28-35 were previously canceled.

Claim 36 as amended sets forth a method of treating a substrate to improve the alcohol repellency of the substrate, the method comprising first passing a substrate through a first treatment solution comprising an ionic fluoropolymer and a monovalent salt wherein the treatment solution contains less than about 0.05 weight percent of an antistatic agent, and wherein the treatment solution contains less than about 0.10 weight percent of a monovalent salt, and thereafter contacting the substrate with a second treatment solution comprising an antistatic agent to form a treated substrate, wherein the treated substrate has a percent loss in hydrostatic head value as compared to untreated fabric of about 10% or less. Claims 16, 17, 18, and 22 were amended to refer to the first treatment solution.

Support for the claim amendments is found at least at page 2, line 25 through page 3 line 10 of the specification. No new matter has been added.

By way of the Office Action mailed November 10, 2009, claims 2, 3, 8, 16 – 24, 26, 27, and 36 were rejected under 35 U.S.C. § 103 as allegedly being obvious to one of ordinary skill in the art at the time the invention was made and thus unpatentable over US Patent Number 4,411,928 to Baldwin in view of US Patent Number 4,028,887 to Coates. Additionally, claims 9 and 10 were rejected under 35 U.S.C. § 103 as allegedly being obvious to one of ordinary skill in the art at the time the invention was made and thus unpatentable over the above noted references as applied above, and further in view of Potts (US 5,145,727). These rejections are respectfully **traversed** to the extent that they may apply to the presently presented claims.

Claim 36 has been amended to further include a subsequent step of contacting a substrate with a second treatment solution comprising an antistatic agent to form a treated substrate. This step follows a step of passing the substrate through a first treatment solution comprising an ionic fluoropolymer, less than about 0.10 weight percent of a monovalent salt, and less than about 0.05 weight percent of an antistatic agent. Applicants have discovered that a water repellency property (hydrostatic head) of a substrate is negatively impacted by simultaneously treating the substrate with an ionic fluoropolymer treatment chemical (to promote alcohol repellency) and an antistat (to reduce buildup of static charge). This is demonstrated by Comparative Example B, which, when

treated with ionic fluoropolymer and anionic antistatic agent, demonstrated a 45% drop in the hydrostatic head value compared with an untreated sample (Comparative Example A). Applicants have additionally discovered that omitting the antistat from the treatment solution results in reduced adherence of the ionic fluoropolymer to the substrate, thus causing reduced alcohol repellency. This problem is particularly significant when passing the substrate through a treatment solution, as it is important that the fluoropolymer adhere to the substrate before it is removed from the treatment solution. Applicants have surprisingly discovered that using less than about 0.1 weight percent of monovalent salt in the treatment solution will 1) allow the ionic fluoropolymer to adhere to the substrate, 2) provide significant alcohol repellency (80 percent), and 3) provide a percent loss in hydrostatic head value of about 10% or less. However, poor static dissipation results from reduced levels of antistatic agent in the first treatment solution. This problem is solved by subsequent treatment of the substrate with a solution containing an antistat.

The cited combination of references does not teach or suggest Applicants' claimed process. Baldwin teaches an alcohol repellent finish by treatment with a solution including fluoropolymer and a monovalent salt an antistat. According to the teaching of Baldwin, the monovalent salt is added to **enhance** the antistatic properties (col 5, lines 14 - 16), and is applied in an amount of 0.2 - 0.5weight percent. Thus Baldwin's minimum amount of monovalent salt is 5 – 10 times more than the amount in Applicants' claim 36. Also, faced with a need for better static dissipation properties, one of ordinary skill would not be motivated by Baldwin to reduce the amount of monovalent salt taught by Baldwin, unless improperly motivated by Applicants' specification, because to do so would not enhance the antistatic properties, which is precisely the reason that Baldwin has the monovalent salt in the treatment solution. There is no recognition in Baldwin or the other cited references of the problem of negatively impacting water repellency when simultaneously treating with ionic fluoropolymers and antistats. Baldwin's use of monovalent salt is directed to promoting antistatic properties, while Applicants' process is directed to solving the problem by avoiding antistats. With these diametrically opposed purposes, it is difficult to see how one skilled in the art would be motivated by Baldwin, without the hindsight provided by Applicants' specification, to both reduce the monovalent salt content by 0.5 to 1 orders of magnitude and subsequently provide a second treatment with an antistat.

Coates was cited for teaching that an anionic fluoropolymer may be utilized to impart alcohol repellency and does not address or correct the deficiencies of Baldwin noted above. Additionally, Potts does not address or correct the deficiencies of Baldwin noted above.

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For the reasons stated above, it is respectfully submitted that all of the presently presented claims are in form for allowance.

Please charge any prosecutional fees which are due to Kimberly-Clark Worldwide, Inc. deposit account number 11-0875.

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Respectfully submitted,

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ELECTRONIC FILING CERTIFICATE

I, Faye Farrell, hereby certify that this correspondence and all attachments and any fee(s) are being electronically transmitted via the internet to the United States Patent and Trademark Office using the Electronic Filing System on April 12, 2010.

/Fave Farrell/